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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/970,944	10/04/2001	John L. Herrmann	21402-138 (CURA-438)	3505	
30623 7	590 05/18/2005	•	EXAM	EXAMINER	
•	IN, COHN, FERRIS,	YAEN, CHRI	YAEN, CHRISTOPHER H		
AND POPEO, ONE FINANC			ART UNIT PAPER NUMBER		
BOSTON, MA	A 02111		1642	1642	

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Appli	cation No.	Applicant(s)				
		70,944	HERRMANN ET AL.				
Office Action Summary		iner	Art Unit				
	Chris	topher H. Yaen	1642				
The MAILING DATE of this con Period for Reply	nmunication appears of	n the cover sheet with the	e correspondence addre	ess			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMI - Extensions of time may be available under the proafter SIX (6) MONTHS from the mailing date of thi - If the period for reply specified above is less than to the period for reply is specified above, the maximalable for the period for reply within the set or extended period for Any reply received by the Office later than three mearned patent term adjustment. See 37 CFR 1.70	MUNICATION. visions of 37 CFR 1.136(a). In s communication. hirty (30) days, a reply within th num statutory period will apply a or reply will, by statute, cause th onths after the mailing date of the status of t	no event, however, may a reply be e statutory minimum of thirty (30) and will expire SIX (6) MONTHS fr e application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this comn NED (35 U.S.C. § 133).	nunication.			
Status							
1) Responsive to communication(s) filed on <i>22 Februar</i> ı	<u> 20</u> 05.					
2a)⊠ This action is FINAL.	2b) This action						
3)☐ Since this application is in cond	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the p	oractice under <i>Ex parte</i>	e Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) <u>5,6,9,12-14,39 and 42</u>	is/are pending in the	application.					
4a) Of the above claim(s)	•	• •					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>5,6,9,12-14,39 and 42</u>	is/are rejected.						
7) Claim(s) is/are objected	-						
8) Claim(s) are subject to r		on requirement.					
Application Papers				•			
9) The specification is objected to	by the Evaminer			•			
10) The drawing(s) filed on is	•	or h) Ohiected to by th	e Evaminer				
Applicant may not request that any		•					
Replacement drawing sheet(s) incl	_	· ·	` '	1 121(d)			
11) The oath or declaration is object							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a c	•	under 35 U.S.C. § 119	(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None							
1. Certified copies of the pri							
2. Certified copies of the pri							
3. Copies of the certified co			ived in this National Sta	age			
application from the Inter		• • • •					
* See the attached detailed Office	action for a list of the o	certified copies not recei	ved.				
Attachment(s)							
)	iew (PTO-048)	4) Interview Summa Paper No(s)/Mail					
 Information Disclosure Statement(s) (PTO-14 Paper No(s)/Mail Date 			Patent Application (PTO-15	52)			
6. Patent and Trademark Office TOL-326 (Rev. 1-04)	Office Action Sur	nmary	Part of Paper No./Mail Date	5092005			

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DETAILED ACTION

Re: Hermann et al

1. The amendment filed 2/22/2005 is acknowledged and entered into the record.

Accordingly, claims 1-4, 7-8, 10-11, 15-38, and 40-41 are canceled without prejudice or

disclaimer.

2. Claims 5-6,9,12-14,39, and 42 are pending and examined on the merits

3. The text of those sections of Title 35, U.S. Code not included in this action can

be found in a prior Office action.

Claim Objections Maintained

4. The objection to the specification for containing embedded hyperlinks is

maintained for the reasons of record. The citation of MPEP §608.014 by applicant is

duly noted. However, it is unclear if the contents of the page as currently presented is

intended to be incorporated as of the filing date or if the applicant intends to incorporate

future changes to the contents of the URL. Applicant may overcome this rejection by

removing the embedded hyperlinks.

Claim Rejections Maintained - 35 USC § 112, 1st paragraph

5. The rejection of claim 6 under 35 USC § 112, 1st paragraph as lacking adequate

written description is maintained for the reasons of record. Applicant argues that the

claimed nucleic acid encompasses only the full complement of the claimed sequence.

More specifically, applicant argues that the specification teaches that the term

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"complement" is intended to encompass only the full length nucleotide sequence because the specification also makes mention of "portions" or fragments of the claimed sequence. Applicant's arguments have been carefully considered but are not deemed persuasive to overcome the rejection of record.

The term "complement" as interpreted in the claim can encompass both full-length nucleotide sequences or portions/fragments of the claimed nucleotide sequence as previously argued. The applicant points to the specification (page 63, lines 23-27) to support the argument that the term "complement" can only mean full length complements. However, the specification describes nucleotide sequences that are complements of SEQ ID Nos: 1,3,5,7,9, and 11 or portions of SEQ ID Nos: 1,3,5,7,9, and 11. Therefore, the term complement encompasses both full complements (i.e. those that bind to the full length sequence of SEQ ID Nos:1,3,5,7,9, and 11) or partial complements (i.e. those sequences that bind to "a portion" of SEQ ID Nos:1,3,5,7,9, and 11).

Moreover, the specification of the instant application does not support the full breadth of the term "complement", because the specification has only provided information or disclosure concerning the full length sequence of SEQ ID No: 2, as claimed. The specification does not provided information with regard to substitutions, additions, or modifications to SEQ ID No: 2 or for that matter whether the "complements" of SEQ ID No: 2. Therefore, the written description in this case is only commensurate in scope to the claims that read on SEQ ID No: 2 or full complements of SEQ ID No: 2.

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Therefore, the rejection under 35 USC §112, 1st paragraph as lacking proper written description is maintained for the reasons of record.

Claim Rejections Maintained - 35 USC § 101 & 35 USC § 112, 1st paragraph

6. The rejection of claims 5,6,9,12-14, 39 and 42 under 35 USC §101 as lacking a substantial and specific utility is maintained for the reasons of record. Applicant argues that the instantly claimed invention is supported by a substantial and specific utility. More specifically, applicant argues that NOV1 can be used to differentiate between normal and malignant kidney tissue, and support for this contention, by indicating that methods such as RTQ-PCR can be used to detect and compare the differences in NOV1 expression. Applicant's arguments have been carefully considered but are not deemed persuasive to overcome the rejection of record.

Neither the specification nor any art of record specifically teaches or discloses any specific property of the claimed NOV1 nucleotide sequence. Moreover, the disclosed utility of the NOV1 nucleotide is a general utility that can be applied broadly to any nucleotide sequence, thus the utility disclosed is not particular only to the instantly claimed NOV1 nucleotide. Further, neither the specification nor any art of record provides any descriptive information regarding the claimed nucleotide sequence, such as a nexus between the over-expression NOV1 and neoplastic disease. The specification has not adequately established that over-expression of NOV1 is in fact

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indicative of neoplastic disease and therefore the utility ascribed to the nucleotide sequence is neither substantial nor specific.

Applicant additionally contends that the cited references of Bowie *et al*, Burgess *et al*, Scott *et al*, and Bork *et al* are drawn to the unpredictability of protein function based on homology to known proteins, while the instant invention is drawn to nucleotide sequences. For this applicant concludes that the references are irrelevant and fail to support the rejection under 35 USC §101. Applicant's arguments have been carefully considered but are not deemed persuasive to overcome the rejection of record.

Until some actual and specific significance can be attributed to the protein encoded by the NOV1 nucleotide, the instant invention is incomplete. In the absence of any functional or biological significance of this protein, there is no immediately obvious patentable use for it. To employ a nucleic acid of the instant invention (or the protein encoded thereby) in the diagnosis of kidney cancer would clearly require the use of such as an object of further research, as no such disorders have yet to be identified, and thus would require substantial further investigation, which investigation would constitute part of the inventive process itself. Since the instant specification does not disclose a readily available, real world use for the claimed polynucleotide of the protein encoded thereby, the claimed invention is incomplete and does not meet the requirement of 35 USC § 101 as being useful.

The rejection of claims 5,6,9,12-14, 39 and 42 under 35 USC § 112, 1st paragraph is also maintained. Specifically, since the claimed invention is not supported by either a specific or substantial asserted utility or a well established utility for the

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reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

Conclusion

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H. Yaen whose telephone number is 571-272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CHRISTOPHER YAEN ART UNIT 1642 MAY 16,2005 JEFFREY SEW JEFFREY SEW JUDIENT EXAMINER 5/16/03